

ABSTRACT

There is provided a size and a shape capable of decreasing an unit power consumption, an adsorption column having the optimal shape for the selected adsorbent, and a pressure swing adsorption separation apparatus having an excellent pressure swing adsorption separation performance. In the present invention, an adsorbent having an equivalent diameter within a range of $1.0 \pm 0.2\text{mm}$ or within a range from 12 mesh to 20 mesh is used and the adsorption column is established such that a superficial velocity u [m/s] of a raw material air is set to be within a range of $\pm 25\%$ of $u = 0.07a + 0.095$ to the equivalent diameter a [mm].

EL 815521937US
MAY 15, 2001
I hereby certify that this paper or fee is being de-
posited with the United States Postal Service "Express
Mail Post Office to Addressee" service under 37 CFR
1.10 on the date indicated above and is addressed to:
Assistant Commissioner for Patents, Washington, D.C. 20231.
Yolanda Gray
(printed name)
Yolanda Gray
(signature)